AMENDMENTS TO THE CLAIMS

Status is in parenthetical expression, strike-through shows deleted matter, and underlining shows added matter.

Claim 1 (Currently Amended): A method for determining the presence of thyroidstimulating autoantibodies antibodies in a test sample, comprising:

- a) providing:
- i) a test sample suspected of containing thyroid-stimulating autoantibodies antibodies,
- ii) cultured CHO-Rluc cells comprising a reporter gene, wherein said cultured cells are contained within a testing means, and
 - iii) polyethylene glycol;
- b) exposing said test sample to said cultured cells and said polyethylene glycol under conditions such that <u>said reporter gene is expressed</u> said thyroid-stimulating antibodies are detectable; and
- c) observing for increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample, thereby detecting the presence of detectable thyroid-stimulating antibodies.

Claim 2 (Previously Cancelled).

Claim 3 (Original): The method of Claim 1, wherein said observing is conducted using a luminometer.

Claim 4 (Currently Amended): The method of Claim 1, wherein said observing is conducted using further comprises measuring cyclic adenosine monophosphate measurements concentration.

Claim 5 (Original): The method of Claim 1, further comprising a Growth Medium.

Claim 6 (Original): The method of Claim 1, further comprising a Stimulation Medium.

Claim 7 (Currently Amended): The method of Claim 5, wherein said cultured cells are exposed to said Growth Medium prior to exposure of said test sample.

Claim 8 (Currently Amended): The method of Claim 6, wherein said eultured cells are exposed to said Stimulation Medium after exposure to said test sample.

Claim 9 (Previously Amended): The method of Claim 8, wherein said Stimulation Medium comprises said polyethylene glycol.

Claim 10 (Currently Amended): A method for determining the presence of thyroidstimulating autoantibodies antibodies in a test sample, comprising:

- a) providing:
- i) a test sample suspected of containing thyroid-stimulating autoantibodies antibodies,
- ii) eultured CHO-Rluc cells comprising a reporter gene contained within a testing means, and
 - iii) polyethylene glycol;
- b) exposing said test sample to said cultured cells and said polyethylene glycol under conditions such that <u>said reporter gene is expressed</u> said thyroid-stimulating antibodies are detectable; and
- c) observing for increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample. thereby detecting the presence of detectable thyroid-stimulating antibodies, wherein said observing utilizes a luminometer.

Claim 11 (Original): The method of Claim 10, further comprising a Growth Medium.

Claim 12 (Original): The method of Claim 10, further comprising a Stimulation Medium.

Claim 13 (Currently Amended): The method of Claim 11, wherein said eultured cells are exposed to said Growth Medium prior to exposure of said test sample.

Claim 14 (Currently Amended): The method of Claim 12, wherein said cultured cells are exposed to said Stimulation Medium after exposure to said test sample.

Claim 15 (Previously Amended): The method of Claim 14, wherein said Stimulation Medium comprises said polyethylene glycol.

Claim 16 (Currently Amended): A method for determining the presence of thyroid-stimulating autoantibodies antibodies in a test sample, comprising:

- a) providing:
- i) a test sample suspected of containing thyroid-stimulating autoantibodies antibodies,
- ii) <u>cultured CHO-Rluc cells comprising a reporter gene</u> contained within a testing means,
 - iii) Growth Medium, and
 - iv) Stimulation Medium, wherein said Stimulation Medium comprises polyethylene glycol;
- b) exposing said eultured said to said Growth Medium to produce grown cells;
- exposing said test sample to said grown cells and said Stimulation
 Medium under conditions such that <u>said reporter gene is expressed</u> said thyroid-stimulating antibodies are detectable; and
- d) observing for increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample, thereby detecting the presence of detectable thyroid-stimulating antibodies, wherein said observing utilizes a luminometer.

Claim 17 (Previously Cancelled).

Claim 18 (Previously Amended): The method of Claim 16, wherein said observing further comprises measuring the cyclic adenosine monophosphate concentration.

Claim 19 (Currently Amended): The method of Claim 1 A method for determining the presence of thyroid-stimulating antibodies in a test sample, comprising:

- a) providing:
- <u>i)</u> <u>a test sample suspected of containing thyroid-stimulating</u> antibodies,
 - ii) CHO-Rluc cells comprising a reporter gene, and
 - iii) polyethylene glycol;
- b) exposing said CHO-Rluc cells to said test sample and to said polyethylene glycol under conditions such that said reporter gene is expressed; and
- c) observing increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample, thereby detecting the presence of thyroid-stimulating antibodies, wherein luciferase activity in said a control sample comprising CHO-Rluc cells exposed to bovine thyroid stimulating hormone is higher in the presence of polyethylene glycol than in the absence of said polyethylene glycol.

Claim 20 (Currently Amended): The method of Claim 10, A method for determining the presence of thyroid-stimulating antibodies in a test sample, comprising:

- a) providing:
- <u>i)</u> <u>a test sample suspected of containing thyroid-stimulating</u> <u>antibodies,</u>
 - ii) CHO-Rluc cells comprising a reporter gene, and
 - iii) polyethylene glycol;

- b) exposing said CHO-Rluc cells to said test sample and to said polyethylene glycol under conditions such that said reporter gene is expressed; and
- c) observing increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample, thereby detecting the presence of thyroid-stimulating antibodies, wherein said observing utilizes a luminometer, and wherein luciferase activity in said a control sample comprising CHO-Rluc cells exposed to bovine thyroid stimulating hormone is higher in the presence of polyethylene glycol than in the absence of said polyethylene glycol.

Claim 21 (Currently Amended): The method of Claim 16, A method for determining the presence of thyroid-stimulating antibodies in a test sample, comprising:

- a) providing:
- <u>i)</u> <u>a test sample suspected of containing thyroid-stimulating</u> antibodies,
 - ii) CHO-Rluc cells comprising a reporter gene.
 - iii) Growth Medium, and
 - iv) Stimulation Medium, wherein said Stimulation Medium comprises polyethylene glycol;
- b) exposing said cells to said Growth Medium to produce grown cells;
- c) exposing said grown cells to said test sample and to said Stimulation

 Medium under conditions such that said reporter gene is expressed, and
- d) observing increased expression of said reporter gene in said cells in the presence of said test sample compared to in the absence of said test sample, thereby detecting the presence of thyroid-stimulating antibodies, wherein said observing utilizes a luminometer, and wherein luciferase activity in said a control sample comprising CHO-Rluc cells exposed to bovine thyroid stimulating hormone is higher in the presence of polyethylene glycol than in the absence of said polyethylene glycol.

Claim 22 (New): The method of Claim 19, wherein said observing is conducted using a luminometer.

Claim 23 (New): The method of Claim 19, wherein said observing further comprises measuring cyclic adenosine monophosphate concentration.

Claim 24 (New): The method of Claim 19, further comprising a Growth Medium.

Claim 25 (New): The method of Claim 19, further comprising a Stimulation Medium.

Claim 26 (New): The method of Claim 24, wherein said cells are exposed to said Growth Medium prior to exposure of said test sample.

Claim 27 (New): The method of Claim 25, wherein said cells are exposed to said Stimulation Medium after exposure to said test sample.

Claim 28 (New): The method of Claim 27, wherein said Stimulation Medium comprises said polyethylene glycol.

Claim 29 (New): The method of Claim 20, further comprising a Growth Medium.

Claim 30 (New): The method of Claim 20, further comprising a Stimulation Medium.

Claim 31 (New): The method of Claim 29, wherein said cells are exposed to said Growth Medium prior to exposure of said test sample.

Claim 32 (New): The method of Claim 30, wherein said cells are exposed to said Stimulation Medium after exposure to said test sample.

Claim 33 (New): The method of Claim 32, wherein said Stimulation Medium comprises said polyethylene glycol.